

**WHAT IS CLAIMED IS:**

1. A subscriber distribution system for distributing broadcasting data to subscribers through an subscriber network, the subscriber distribution system comprising:

5 a program id (PID) filter section for checking contents of an inputted MPEG2 multiple program transport streams (MPTS) frame and splitting the MPEG2 MPTS frame into a plurality of single program transport streams (SPTS);

a table regenerator for regenerating a program allocation table (PAT) and a program map table (PMT) that corresponds with the SPTS by changing contents in the PAT and  
10 the PMT;

an SPTS splitting and storing section for storing the SPTS at high speed in a memory area of a buffer, which is assigned to subscribers according to PIDs;

a subscriber distribution section for selecting the SPTS requested by subscribers and storing the SPTS in the memory area of the buffer assigned to subscribers; and

15 a control section receiving MPTS information from a higher network to provide MPTS information to the PID filter section and the table regenerator, receiving a request for a program from subscribers, and transferring the request to the subscriber distribution section.

20 2. The subscriber distribution system as claimed in claim 1, wherein a quantity of filters in the PID filter section corresponds to a quantity of SPTSs that the MPTS has been split into.

3. The subscriber distribution system as claimed in claim 1, wherein the control section receives program information requested by subscribers through a channel change protocol (CCP).

5 4. The subscriber distribution system as claimed in claim 1, wherein the SPTS splitting and storing section and the subscriber distribution section adopt a direct memory access (DMA) technique.

10 5. The subscriber distribution system as claimed in claim 1, wherein the PID filter section includes at least one PID filter for filtering a plurality of PIDs contained in the MPEG2 MPTS.

6. The subscriber distribution system as claimed in claim 1, further comprising a subscriber interface for converting the SPTS stored that match with each  
15 subscriber into a stream to transmit the SPTS to each subscriber.

7. A method for distributing broadcasting data to subscribers through a subscriber network, the method comprising the steps of:

receiving an MPEG2 multiple program transport streams (MPTS) from a higher  
20 network and splitting an MPTS frame into a plurality of single program transport streams (SPTS) according to program identification (PID) obtained through MPTS information and MPTS table information;

regenerating a program allocation table (PAT) and a program mapping table (PMT)  
that corresponds with the SPTS by changing contents of the PAT and the PMT;

storing at least one SPTS corresponding to each subscriber as subscribers request a  
program; and

5 transmitting stored broadcasting data to each subscriber.

8. The method as claimed in claim 7, wherein a request for a program from  
subscribers is received through a channel change protocol (CCP).

10 9. The method as claimed in claim 7, further comprising the step of providing a  
one-to-one correspondence between a number of SPTSs and the number of PID filters  
required.